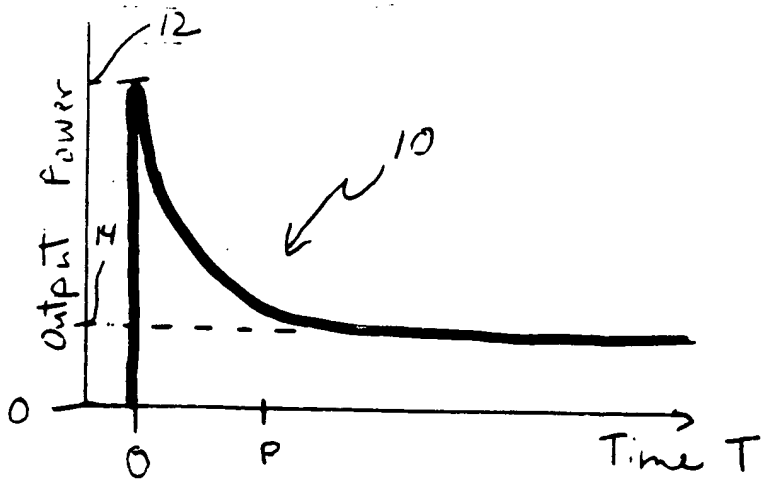


FIG. 1A

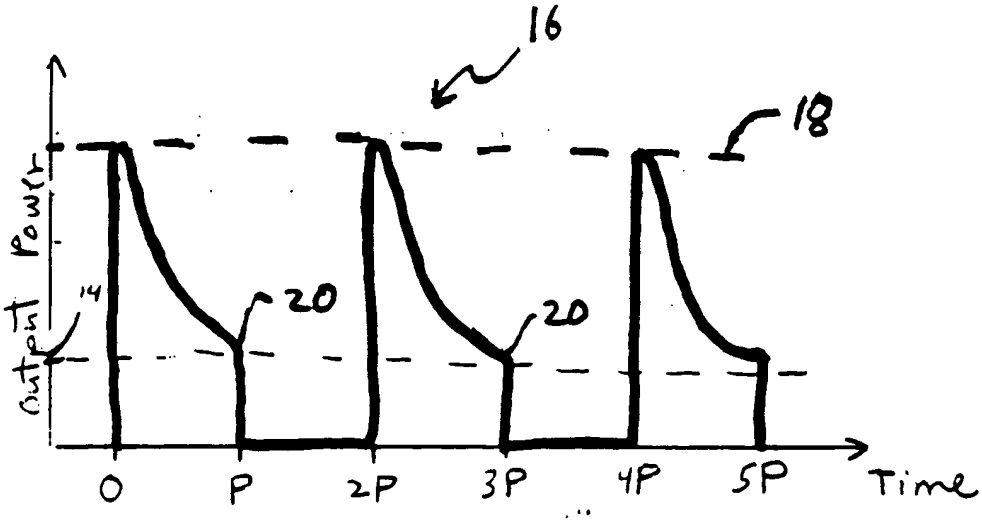


FIG. 1B

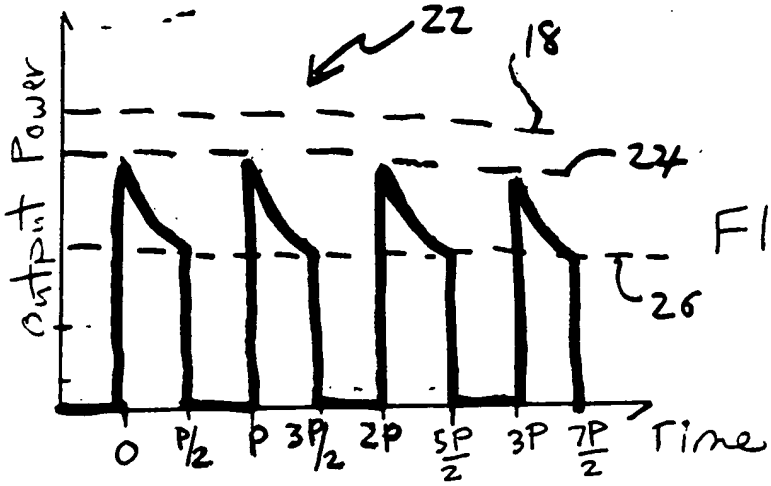


FIG. 1C

T06290 E8796860

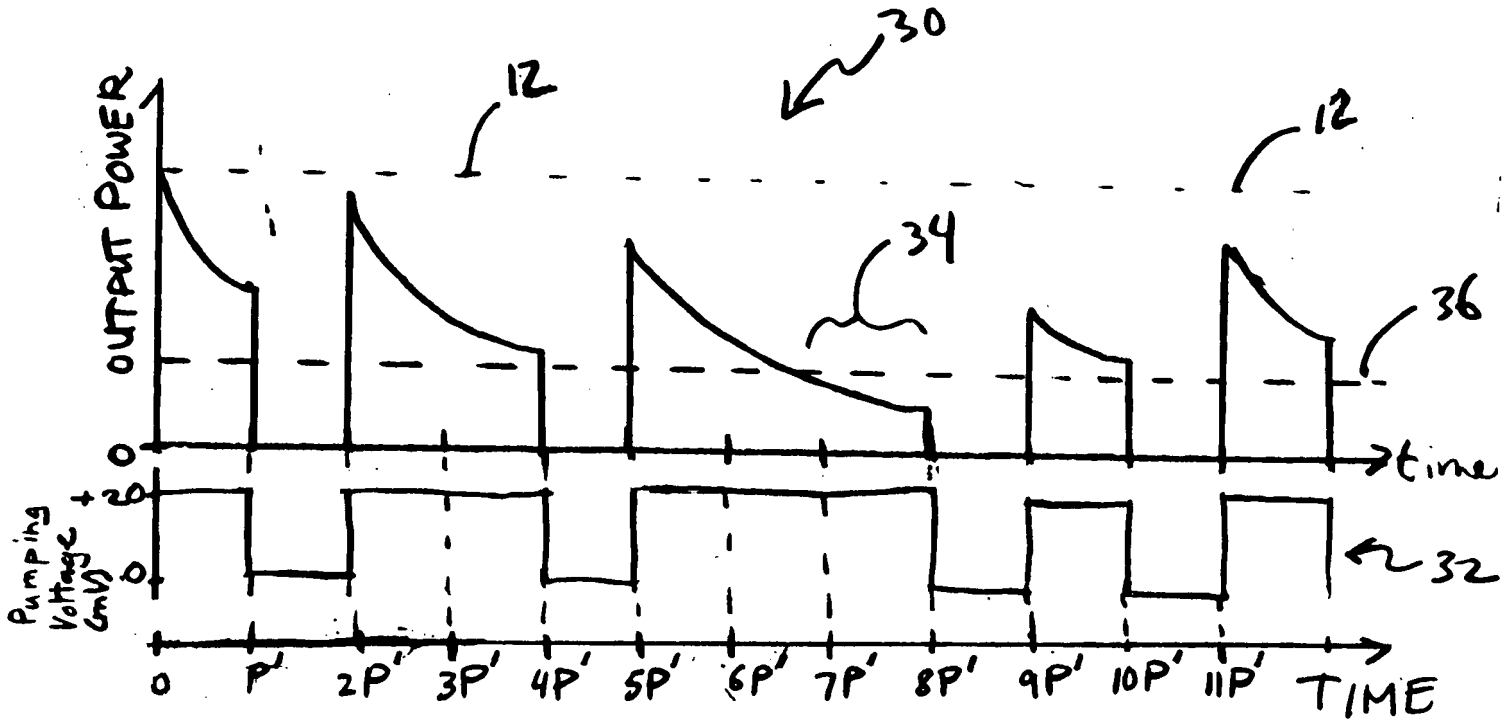
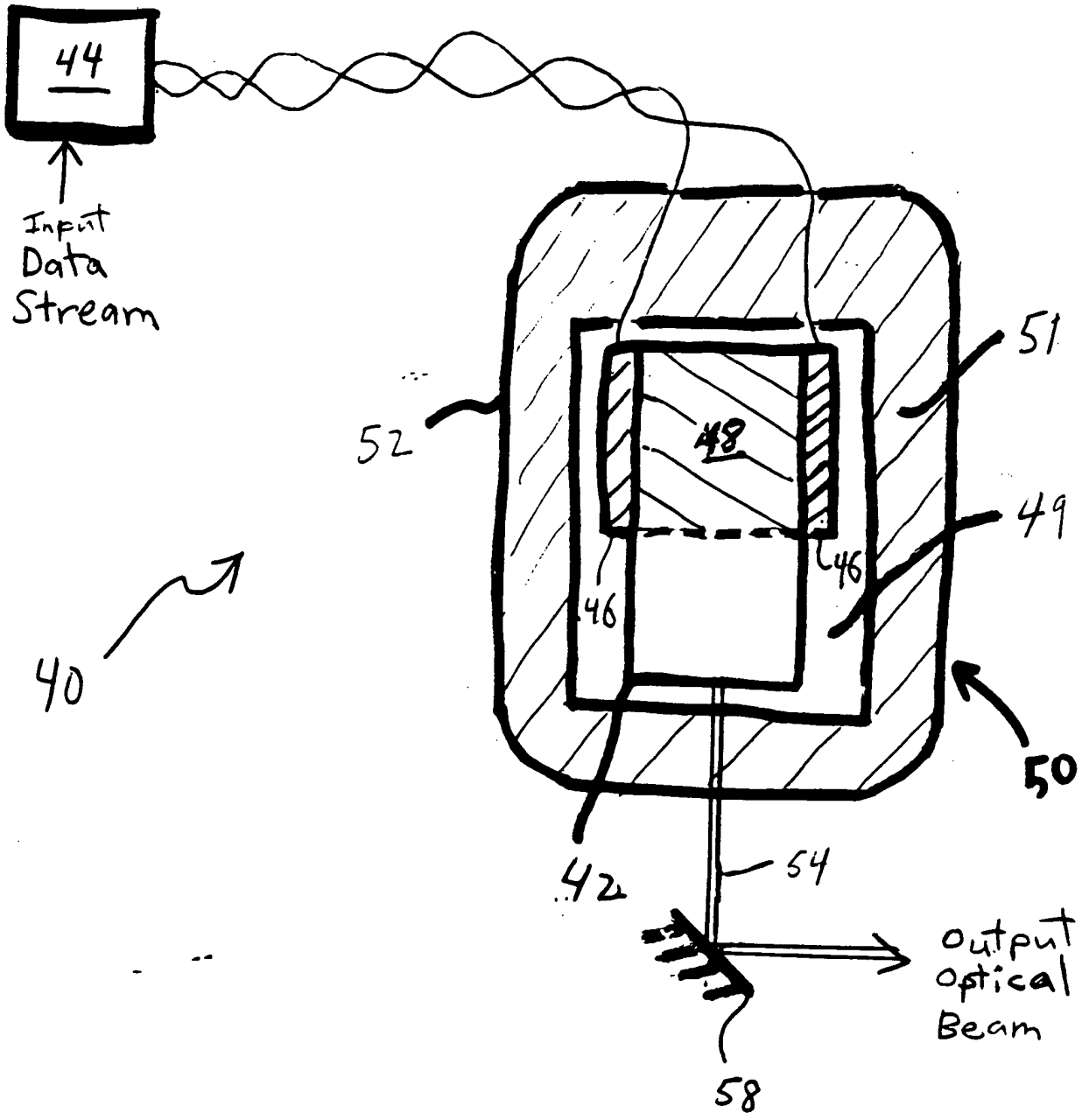


FIG. 2

FIG. 3A


44
Input
Data
Stream
40
52
51
48
49
46
46
50
42
54
Output
Optical
Beam
58

T06290 "E879880

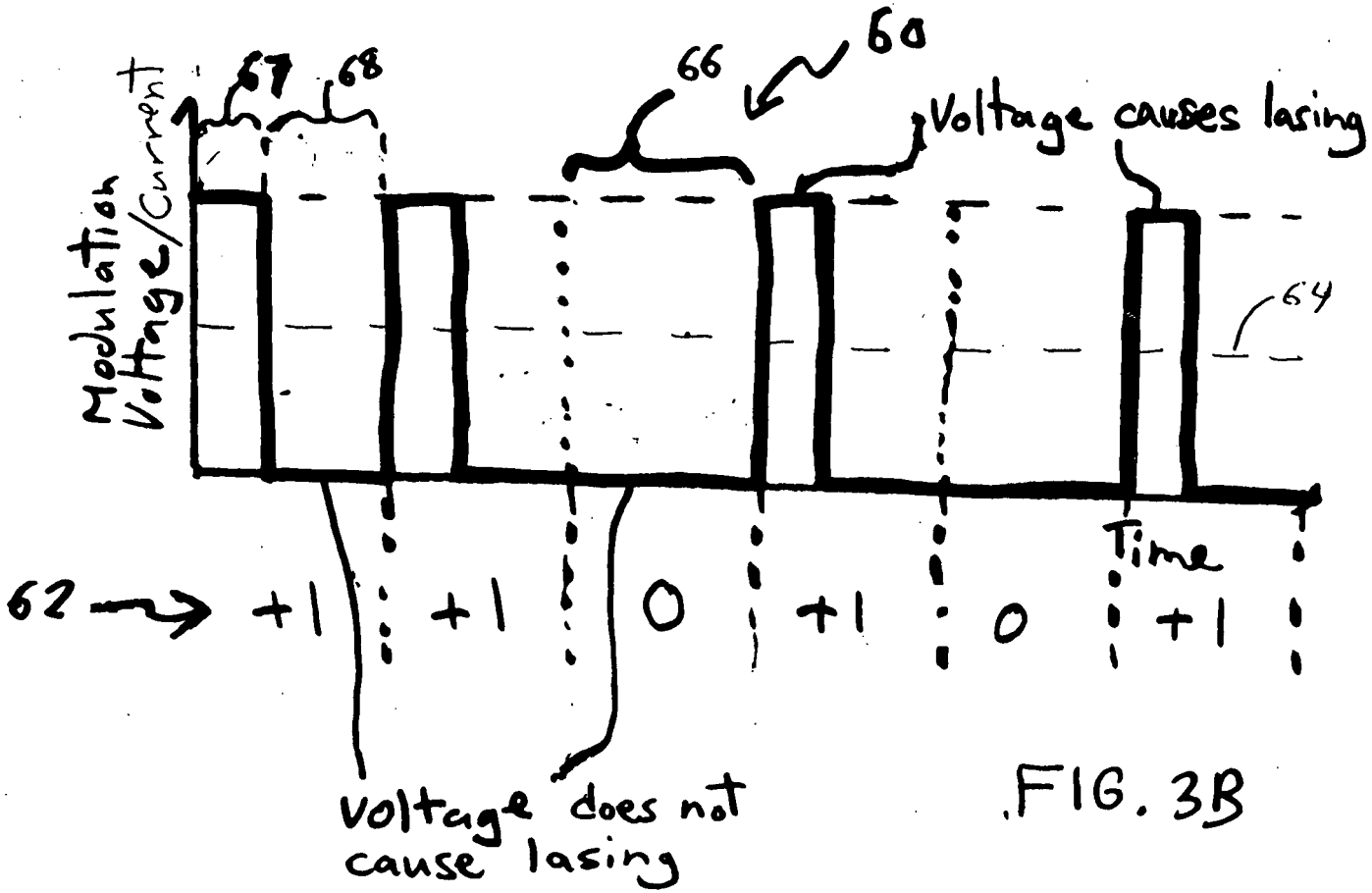


FIG. 3B

T06290 "E829868

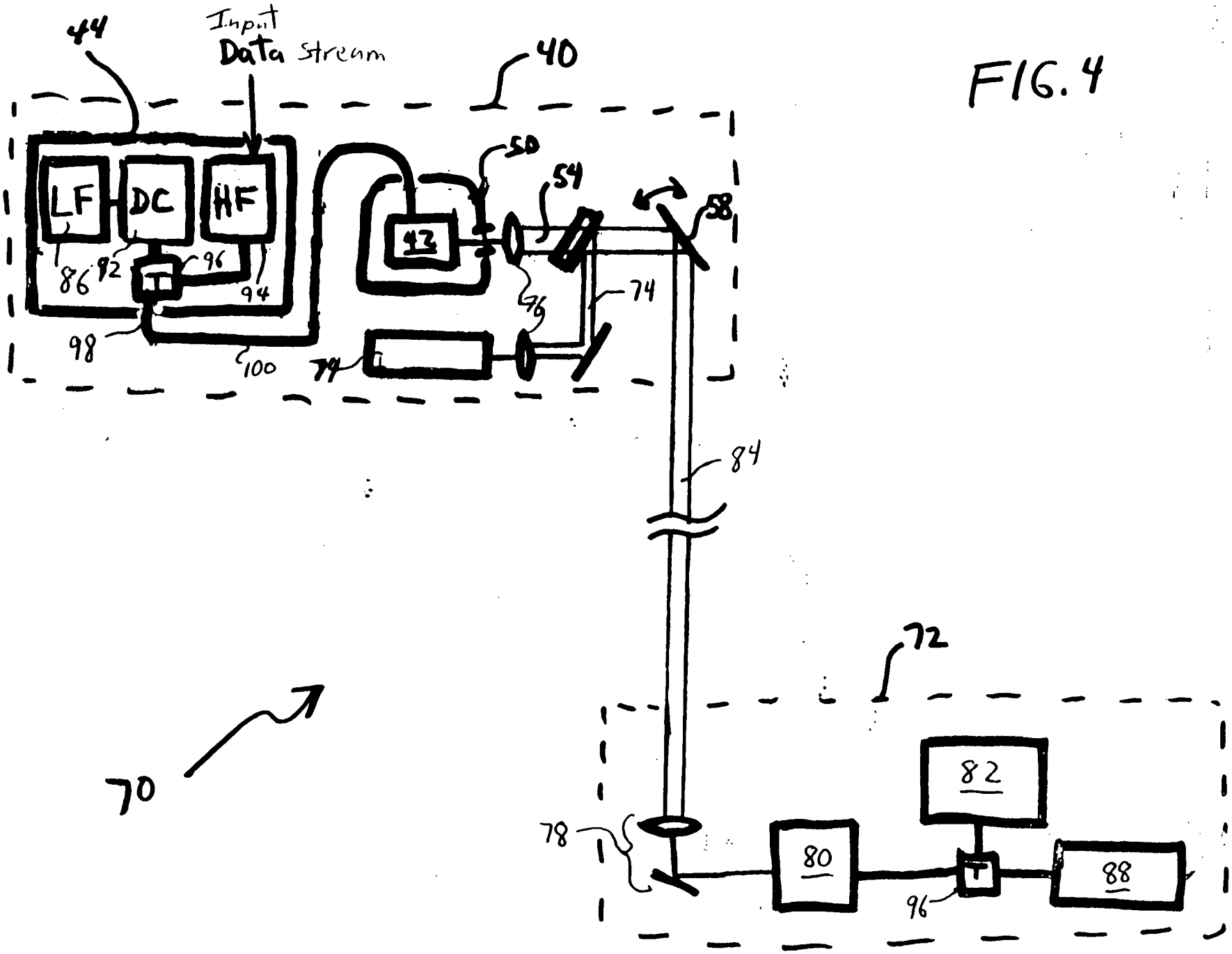


FIG. 4

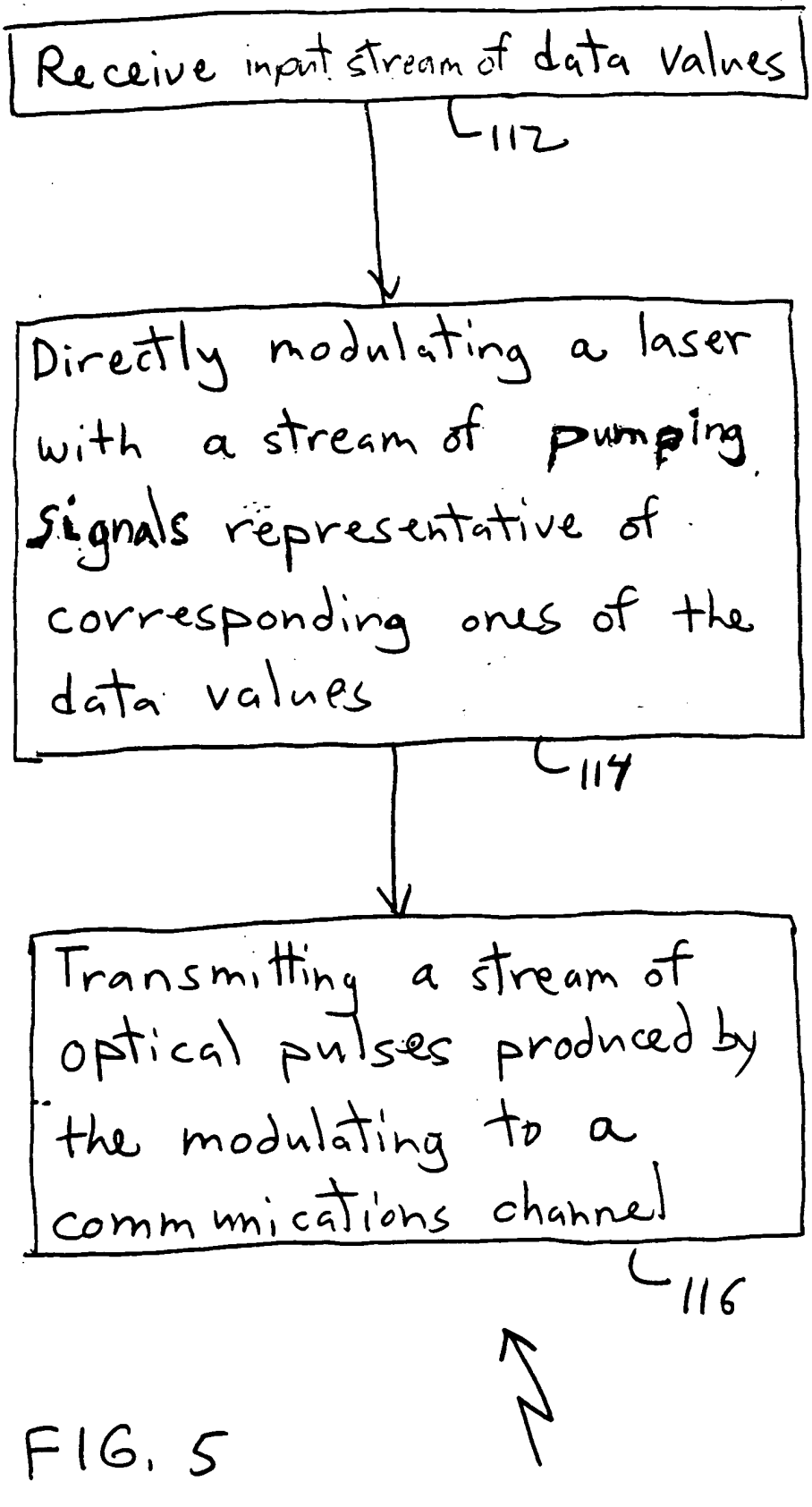
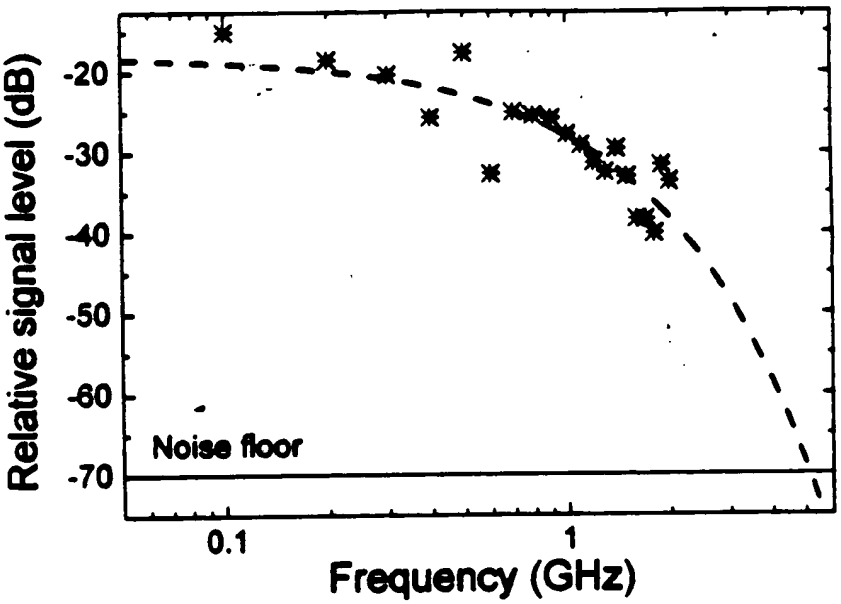

Receive input stream of data values
112
Directly modulating a laser with a stream of pumping signals representative of corresponding ones of the data values
114
Transmitting a stream of optical pulses produced by the modulating to a communications channel
116
110

FIG. 5

FIG. 6


Relative signal level (dB)
-20
-30
-40
-50
-60
-70
Noise floor
0.1
1
Frequency (GHz)